## CLAIMS

Support material coated on at least one side with a synthetic resin, containing a raw paper provided at least on the front side with a pigment coating, wherein the pigment coating contains at least about 5% by weight of a pigment with a narrow grain distribution, whereby at least about 70% of these pigment particles feature a size of less than about 1  $\mu m$  and at least 40% by weight of these particles feature a grain size of 0.35 to 0.8  $\mu m$ .

Support material according to claim 1, wherein the pigment is a calcium carbonate.

- 3. Support material according to claim 1, wherein the coating contains a pigment mixture which contains at least about 30 % by weight kaolin.
- 4. Support material according to claim 1, wherein the application weight of the coating amounts to a maximum of about  $20 \text{ g/m}^2$ .
- 5. Support material according to claim 1, wherein the raw paper is a slightly compressed paper with a density of less than about 1 g/cm<sup>3</sup>.
  - Support material coated on at least one side with synthetic resin, containing a raw paper provided on at least the front side with a pigment coating, wherein the pigment coating contains a structured calcium carbonate.

ij,M

6./

7. Support material according to claim 6, wherein the calcium carbonate, is a surface modified by an inorganic substance in platelet shape.

20 C

- 8. Support material according to claim 6, wherein the proportion of the pigment in the total amount of pigment amounts to at least about 5 % by weight.
- 9. Support material according to claim 7, wherein the proportion of the pigment in the total amount of pigment amounts to at least about 5 % by weight.

Support material according to claim 6, wherein the pigment coating contains a pigment mixture which contains at least about 30 % by weight of clay.

√. <del>10</del>.

Support material according to claim 8, wherein the application weight of the coating amounts to a maximum of about 20  $g/m^2$ .

14.

Process for the manufacture of a support material coated on at least one side with a synthetic resin, containing a raw paper provided at least on the front side with a pigment coating, wherein the coating containing at least one pigment is applied on the front side of a raw paper, and the pigment features a narrow grain size distribution, that the pigment coating contains at least about 5 % by weight of a pigment with a narrow grain distribution, whereby at least about 70 % of these pigment particles feature a size of less than about 1 µm, and at least 40 % by weight of these particles feature a grain size of 0.35 and 0.8 µm, and a resin is applied on the side of the raw paper coated with the pigment, by extrusion, at a speed of up to 600 m/min.

Process according to claim 11 wherein the resin is extruded onto the pigment coating of the raw paper at a speed of 350 to 600 m/min.

Process according to claim 11 wherein the coating of the raw paper is applied in two stages in such a way that first a preliminary layer containing pigment is first applied with an application weight of up to about 20 g/m² onto the raw paper, and then a coating containing a pigment with a narrow grain size distribution is applied, in which about 50 % of the pigment particles feature a diameter of 0.7 µm.

Support material for an ink-jet recording sheet comprising a raw paper provided at least on the front side with a pigment coating, wherein the pigment coating contains at least about 5 % by weight of a pigment with a marrow grain distribution, whereby at least about 70 % of these pigment particles feature a size of less than about 1  $\mu$ m and at least 40 % by weight of these particles feature a grain size of 0.35 to 0.8  $\mu$ m.

Support material according to claim 14, wherein the pigment is a calcium carbonate.

Support material according to claim 14, wherein the coating contains a pigment mixture which contains at least about 30 % by weight kaolin.

Support material according to claim 14, wherein the application weight of the coating amounts to a maximum of about 20  $g/m^2$ .

18. Support material according to claim 14, wherein the calcium carbonate is a structured calcium carbonate.

Support material according to claim 14, wherein the calcium carbonate is a surface modified by an inorganic substance in platelet shape.

V 19.